1	<u>CLAIMS</u>		
2	What is claimed is:		
3			
4	1. A rotary cutting tool comprising, in combination:		
5	a rotary die cylinder;		
6	a die plate fixedly mounted to the rotary die cylinder at a first position and		
7	adjustably mounted to the rotary die cylinder at a second position; and		
8	an external eccentric mounted on the rotary die cylinder and adapted to fit		
9	into an opening in the cylinder at the second position, the external eccentric having	а	
10	first axis of rotation with respect to the cylinder;		
11	wherein rotation of the external eccentric about the first axis adjusts the		
12	position of the die plate with respect to the cylinder.		
13			
14	2. The rotary cutting tool of claim 1 wherein the external eccentric has a central		
15	opening offset from the first axis.		
16			
17	3. The rotary cutting tool of claim 1 further comprising an internal eccentric		
18	mounted in the central opening and operatively connected to the die plate.		
19			
20	4. The rotary cutting tool of claim 3 further comprising a top fastener which		
21	operatively connects the die plate to the internal eccentric.		
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1	5.	The rotary cutting tool of claim 1 further comprising a mounting pin extending		
2	radia	lly outward from the cylinder at the first position, wherein the die plate forms an		
3	open	ing sized to snugly receive the mounting pin.		
4				
5	6.	The rotary cutting tool of claim 2 further comprising a set screw which		
6	enga	ges an external surface on the external eccentric, wherein rotation of the set		
7	screv	v rotates the external eccentric around the first axis.		
8				
9	7.	The rotary cutting tool of claim 3 wherein rotation of the external eccentric		
10	urges the internal eccentric to rotate about a second axis offset from the first axis so			
11	that t	he internal eccentric moves with respect to the cylinder.		
12				
13	8.	The rotary cutting tool of claim 1 wherein the first axis of rotation extends		
14	gene	rally radially away from the die cylinder.		
15				
16	9.	A rotary cutting tool comprising, in combination:		
17		a rotary die cylinder;		
18		a die plate adjustably mounted to the rotary die cylinder;		
19		an external eccentric mounted on the rotary die cylinder having a first axis of		
20	rotati	on with respect to the cylinder and having a central opening offset from the first		
21	axis; and			

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an internal eccentric mounted in the central opening;

1	wherein rotation of the external eccentric urges the internal eccentric and the
2	die plate to move with respect to the cylinder.
3	

10. The rotary cutting tool of claim 9 wherein the die plate forms four openings and a corresponding top fastener extends though at least three of the openings, and the top fasteners are fastened to corresponding internal eccentrics so that the die plate moves in response to motion of the corresponding internal eccentric.

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9 11. The rotary cutting tool of claim 10 further comprising external eccentrics
10 corresponding to each of the internal eccentrics, wherein each external eccentric
11 and its corresponding internal eccentric cooperate with the die cylinder to maintain
12 tension on the die plate.

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12. The rotary cutting tool of claim 9 wherein the external eccentric is rotatable
about a first axis in an opening formed in the cylinder, and the internal eccentric is
rotatable in a central opening in the external eccentric about a second axis offset
from the first axis.

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13. The rotary cutting tool of claim 9 further comprising a second die cylinder and second die plate adapted to cooperate with the first die cylinder and first die plate to cut a thin material between the die plates.

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## **PATENT**

- 1 14. The rotary cutting tool of claim 9 wherein the internal eccentric is rotatable
- 2 about a second axis offset from the first axis;
- a top fastener is fastened to the internal eccentric offset from both the first
- 4 axis and the second axis; and
- 5 the top fastener engages the die plate.